THE VLCHEK TOOL COMPANY

"IT PAYS TO USE A GOOD TOOL"

AUTOMOBILE TOOL KITS AND TOOLS

THE VLCHEK TOOL COMPANY

Catalog No. 4
1912

MFRS OF
HIGH GRADE
DROP AND HAND FORGED
TOOLS

CLEVELAND OHIO

IN PRESENTING THIS CATALOG to automobile manufacturers and jobbers, we wish to emphasize the fact that **we are manufacturers** of tools and complete tool kits. We can furnish tool kits in any assortment, tools of any desired finish, and we can duplicate tool bags of any description. **Send us your specifications** and we will submit samples for your approval.

Practicability has been our first consideration in selecting tools for our automobile tool kits. Each tool has a mechanical purpose and is constructed for actual use in making repairs in emergencies when good tools are genuinely appreciated.

We manufacture a large line of tools for the hardware trade and will be pleased to submit catalog upon application.

Warranty: All tools made by us are guaranteed perfect in quality, workmanship and design. Any tool proving defective will be replaced cheerfully.

Terms: 2% 10 days from date of invoice or 30 days net, unless otherwise agreed.

"VLCHEK":—Pronounced Vel-check.

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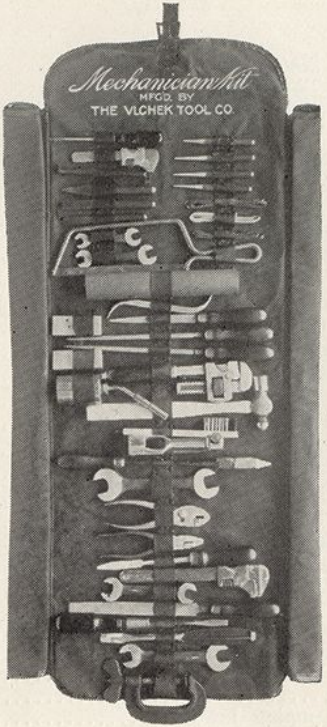


Forty Pieces
HIGHEST GRADE TOOLS
Waterproof Case
$15.00

MECHANICIAN KIT.

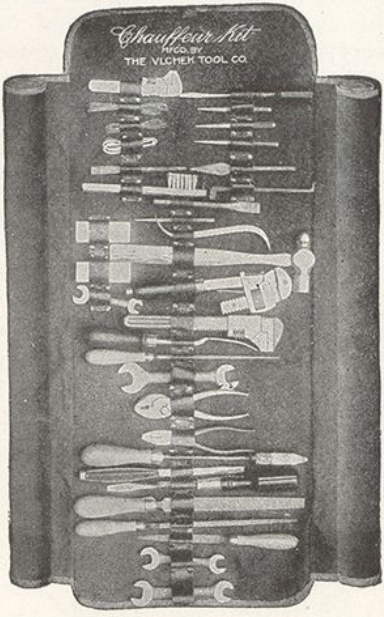
A most complete assortment of highest quality tools, every one practical and indispensable, everything necessary for making all repairs on the road or in the garage.

Consists of the Following Tools:

No. 23 Semi-finished 15° Angle Drop Forged Wrench.
No. 25 Semi-finished 15° Angle Drop Forged Wrench.
No. 27 Semi-finished 15° Angle Drop Forged Wrench.
No. 29 Semi-finished 15° Angle Drop Forged Wrench.
No. 31 Semi-finished 15° Angle Drop Forged Wrench.
10″ Stillson Wood Handle Pipe Wrench.
9″ Mottled Automobile Monkey Wrench.
5″ Nickel Plated Bicycle Wrench.
⅞″ Spark Plug Socket Wrench, japanned.
6″ Nickel Plated, Adjustable, Combination Pliers.
3″ Electricians' Round Shank Screw Driver.
5″ Electricians' Square Shank Screw Driver.
9″ Machinists' All-steel Screw Driver.
8″ Square File with handle. 3 Sheets Emery Cloth.
⅜″ Solid Punch, half-polished, 3-32″ Point.
⅜″ Solid Punch, half-polished, 3-16″ Point.
⅜″ Solid Punch, half-polished, ¼″ Point.
⅜″ Center Punch, half-polished.
½″ Cape Chisel, half-polished.
⅜″ Cotter Pin Extractor, full-polished.
No. 1 Machinists' Bearing Scraper.
8 oz. Machinists' Ball Pein Hammer.

6″ Side-cutting Pliers.
½″ Cold Chisel, half-polished.
7″ Round File with handle.
Soldering Iron with handle.
Box Solder Paste.
Bundle 15 Copper Wire.
Bundle 20 Copper Wire.
8″ Hacksaw and Frame.
½″ Cape Chisel, half-polished.
6″ Offset Drop Forged Screw Driver.
⅜″ Cold Chisel, half-polished.
4″ Flat File with handle.
Bundle Wire Solder.
Soldering Torch.
Spark Plug Brush.
8″ Flat File with handle.
2½″ Carriage-makers' Clamp.
Box Assorted Cotter Pins.

A. L. A. M. Standard Wrenches can be furnished in this kit if preferred.



Thirty-four Pieces
HIGHEST GRADE TOOLS
Waterproof Case
$12.00

CHAUFFEUR KIT.

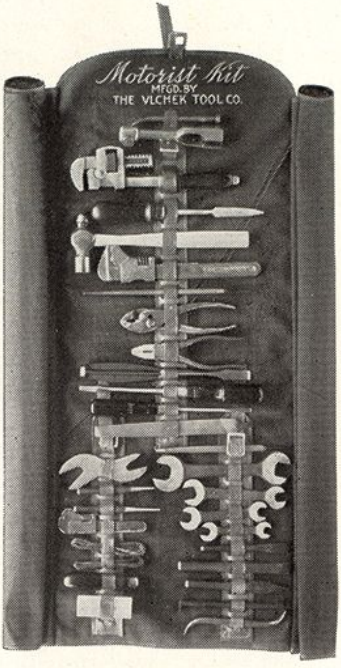
Designed to meet the demand for a medium-priced outfit. A choice assortment of practical tools, high grade and warranted perfect in quality and design; at the price this kit cannot be excelled.

Consists of the Following Tools:

No. 23 Semi-finished 15° Angle Drop Forged Wrench.
No. 25 Semi-finished 15° Angle Drop Forged Wrench.
No. 27 Semi-finished 15° Angle Drop Forged Wrench.
No. 29 Semi-finished 15° Angle Drop Forged Wrench.
10″ Stillson Wood Handle Pipe Wrench.
9″ Mottled, Automobile Monkey Wrench.
5″ Nickel Plated Bicycle Wrench.
6″ Adjustable, Combination Pliers, Mottled.
3″ Electricians' Round Shank Screw Driver.
5″ Electricians' Square Shank Screw Driver.
6″ Offset, Drop Forged Screw Driver.
9″ Machinists' All-steel Screw Driver.
⅜″ Solid Punch, half-polished, 3-32″ Point.
⅜″ Solid Punch, half-polished, 3-16″ Point.
⅜″ Solid Punch, half-polished, ¼″ Point.
⅜″ Center Punch, half-polished.
⅜″ Cotter Pin Extractor, full-polished.
No. 1 Machinists' Bearing Scraper.
8 oz. Machinists' Ball Pein Hammer.

6″ Side Cutting Pliers.
4″ Flat File with handle.
8″ Flat File with handle.
7″ Round File with handle.
8″ Square File with handle.
⅜″ Cold Chisel, half-polished.
½″ Cold Chisel, half-polished.
½″ Cape Chisel, half-polished.
Box Solder Paste.
Box Assorted Cotter Pins.
Bundle Wire Solder.
Soldering Copper with handle.
Bundle 15 Copper Wire.
Bundle 20 Copper Wire.
Spark Plug Brush.

A. L. A. M. Standard Wrenches can be furnished in this kit if preferred.



Thirty Pieces
HIGHEST GRADE TOOLS
Waterproof Case
$9.00

MOTORIST KIT.

An excellent kit, containing all tools necessary for making ordinary repairs. All tools of the highest grade and fully warranted. Case is heavy waterproof canvas with harness leather retaining straps sewed and double riveted. We recommend this kit to the automobile owners.

Consists of the Following Tools:

No. 23 Semi-finished 15° Angle Drop Forged Wrench.
No. 25 Semi-finished 15° Angle Drop Forged Wrench.
No. 27 Semi-finished 15° Angle Drop Forged Wrench.
No. 31 Semi-finished 15° Angle Drop Forged Wrench.
10″ Stillson Wood Handle Pipe Wrench.
9″ Mottled Automobile Monkey Wrench.
Double Jaw "Ever Ready" Wrench.
3″ Electricians' Round Shank Screw Driver.
5″ Electricians' Round Shank Screw Driver.
9″ Machinists' All steel Screw Driver.
6″ Offset Drop Forged Screw Driver.
6″ Mottled, Adjustable, Combination Pliers.
3/8″ Solid Punch, half-polished, 1/8″ Point.
3/8″ Center Punch, half-polished.
3/8″ Cold Chisel, half-polished.
1/2″ Cold Chisel, half-polished.
1/2″ Cape Chisel, half-polished.
5/16″ Cotter Pin Extractor.
No. 1 Machinists' Bearing Scraper.
8 oz. Machinists' Ball Pein Hammer.
File Handle.
8″ Flat File.
6″ Side Cutting Pliers.
Spark Plug Socket Wrench.
Bundle 15 Copper Wire.
Box Assorted Cotter Pins.
8″ Round File.
6″ Three Corner File.
5″ Black Bicycle Wrench.
Bundle 20 Copper Wire.

Wrenches with A. L. A. M. Standard Openings can be furnished in this kit if preferred.

Twenty Pieces
HIGHEST GRADE TOOLS
$8.00

COMMERCIAL KIT.

Made up of tools particularly adapted to use on a truck. All large heavy tools selected for strength and extra quality. This set is used extensively by shop men in all vocations.

Consists of the Following Tools:

No. 23 Semi-finished 15° Angle Drop Forged Wrench.
No. 27 Semi-finished 15° Angle Drop Forged Wrench.
No. 31 Semi-finished 15° Angle Drop Forged Wrench.
No. 34 Semi-finished 15° Angle Drop Forged Wrench.
10″ Stillson Wood Handle Pipe Wrench.
11″ Mottled, Automobile Monkey Wrench, with tire iron handle.
3″ Electricians' Round Shank Screw Driver.
6″ Electricians' Square Shank Screw Driver.
6″ Offset, Drop Forged Screw Driver.
9″ Machinists' All-steel Screw Driver.
7″ Flat File.
7″ Round File.
File Handle.
8″ Mottled, Adjustable, Combination, Pliers.
½″ Solid Punch, Natural Finish, ¼″ Point.
½″ Cold Chisel, Natural Finish.
½″ Cape Chisel, Natural Finish.
⅜″ Cotter Pin Extractor.
1 lb. Machinists' Ball Pein Hammer.
Box Assorted Cotter Pins.

Price $8.00.

Wrenches with A. L. A. M. Standard openings can be furnished if preferred.

Twenty Pieces
HIGHEST GRADE TOOLS
$6.00

TOURIST KIT.

This assortment is used by the majority of the medium priced car manufacturers and contains an assortment that appeals to the prospective buyer who will do most of his own repair work.

All high grade tools.

Consists of the Following Tools:

No. 23 Semi-finished 15° Angle Drop Forged Wrench.
No. 25 Semi-finished 15° Angle Drop Forged Wrench.
No. 27 Semi-finished 15° Angle Drop Forged Wrench.
No. 29 Semi-finished 15° Angle Drop Forged Wrench.
Single Jaw Wrench.
9″ Mottled Automobile Monkey Wrench.
3″ Electricians' Round Shank Screw Driver.
5″ Electricians' Square Shank Screw Driver.
9″ Machinists' All steel Screw Driver.
7″ Flat File. File Handle.
6″ Mottled, Adjustable, Combination Pliers.
3/8″ Solid Punch, half-polished, 1/4″ Point.
3/8″ Center Punch.
1/2″ Cold Chisel. 1/2″ Cape Chisel.
5/16″ Cotter Pin Extractor.
8 oz. Machinists' Ball Pein Hammer.
No. 1 Machinists' Bearing Scraper.
Box Assorted Cotter Pins.

Wrenches with A. L. A. M. Standard
ings can be furnished if preferred.

STERLING KIT.

Fourteen Pieces

This assortment is made up to supply the demand for a low priced serviceable outfit. Tools are warranted high grade material. There is no tool kit on the market to equal this set at the price.

Consists of the Following Tools:

No. 23 Unfinished 15° Angle Drop Forged Wrench.
No. 25 Unfinished 15° Angle Drop Forged Wrench.
No. 29 Unfinished 15° Angle Drop Forged Wrench.
Single Jaw Wrench. Box Assorted Cotter Pins.
9″ Mottled, Automobile Monkey Wrench.
3″ Electricians' Round Shank Screw Driver.
4″ Electricians' Round Shank Screw Driver.
3/8″ Solid Punch, half-polished, 1/4″ Point.
3/8″ Center Punch, half-polished.
1/2″ Cold Chisel, Natural Finish.
5/16″ Cotter Pin Extractor, Black.
6″ Mottled, Adjustable, Combination, Pliers.
8 oz. Machinists' Ball Pein Hammer.

Price $3.50.

Wrenches with A. L. A. M. Standard openings can be furnished if preferred.

TAXI KIT.

Twelve Pieces

This is a slightly different assortment than the one on the preceding page, permitting a little less price, and maintaining the same high quality.

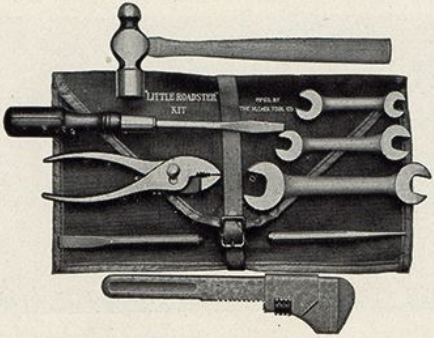
Consists of the Following Tools:

No. 23 Unfinished 15° Drop Forged Wrench.
No. 25 Unfinished 15° Drop Forged Wrench.
No. 29 Unfinished 15° Drop Forged Wrench.
9″ Black, Automobile Monkey Wrench.
4″ Electricians' Square Shank Screw Driver.
6″ Flat File and Handle.
6″ Black, Adjustable, Combination, Pliers.
3/8″ Solid Punch, half-polished, 1/4″ Point.
3/8″ Cold Chisel, half-polished.
5/16″ Cotter Pin Extractor, Black.
Box Assorted Cotter Pins. 10 oz. Ball Pein Hammer.

Price $3.00.

Wrenches with A. L. A. M. Standard openings can be furnished if preferred.

"LITTLE ROADSTER" KIT.



Nine Pieces.

We maintain the same high quality of tools in this kit as in those preceding.

Consists of the Following Tools:

No. 23 Unfinished 15° Angle Drop Forged Wrench.
No. 25 Unfinished 15° Angle Drop Forged Wrench.
No. 29 Unfinished 15° Angle Drop Forged Wrench.
9″ Black Automobile Monkey Wrench.
4″ Electricians' Round Shank Screw Driver.
⅜″ Solid Punch, half-polished, ¼″ Point.
⅜″ Cold Chisel, Natural Finish.
6″ Black, Adjustable, Combination, Pliers.
8 oz. Machinists' Ball Pein Hammer.

Price $2.50.

Wrenches with A. L. A. M. Standard openings can be furnished if preferred.

MOTORCYCLE KIT.

Eight Pieces

There has been an increasing demand for a tool kit for motorcycle use.

We have selected for this assortment tools that are light but strong and nicely finished. The hammer is drop forged in one piece and the end of the handle is shaped into a tire tool, as shown on page 19.

Leatherette case with leather straps and a large pocket on the end for carrying tire repair outfit if desired.

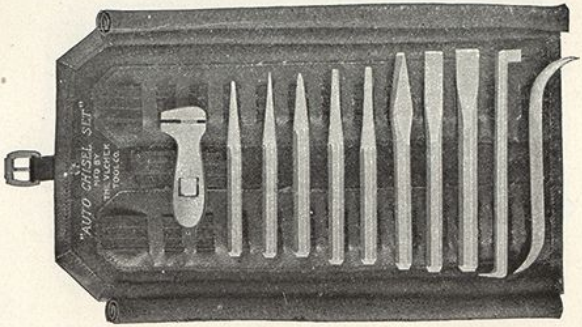
Consists of the Following Tools:

7″ Black Monkey Wrench.
2″ Sq. Shank Screw Driver.
6″ Flat File with handle.
⅜″ Drift Punch, half-polished.
⅜″ Cold Chisel, half-polished.
6″ Mottled Adjustable Combination Pliers.
4 oz. Hammer and Tire Tool.
Box Assorted Cotter Pins.

When rolled up the kit measures about 8½ inches long and 4 inches in diameter.

Leatherette Case, Price $3.00.
Genuine Leather Case, $4.00.

AUTOMOBILE TOOL SET.



This is a handy pocket set and is used by motor cycle riders and automobile repair men.

Consisting of Eleven Tools as Follows:

3″ Miniature Wrench,	Nickel plated.	
5/16″ Solid Punch	Natural finish.	
5/16″ Prick Punch	"	"
3/8″ Center Punch	"	"
3/8″ Solid Punch, 5/32″ Point	"	"
3/8″ Solid Punch, 1/8″ Point	"	"
3/8″ Cape Chisel	"	"
3/8″ Cold Chisel	"	"
7/16″ Cold Chisel	"	"
5″ Offset Screw Driver	"	"
5/16″ Cotter Pin Extractor	"	"

Assembled in Leatherette Case, Sliding Retaining Straps.

Per Set $1.75.

MACHINISTS' BALL PEIN HAMMER.

VLCHEK BRAND.

Number .	4/0	3/0	2/0	0	1	2
Weight ..	6 oz.	8 oz.	12 oz.	1 lb.	1¼ lbs.	1½ lbs.
Per doz..	**$12.00**	**$12.00**	**$12.00**	**$12.50**	**$13.50**	**$14.50**

Number	3	4
Weight	1¾ lbs.	2 lbs.
Per doz.	**$15.50**	**$16.50**

Packed half dozen in a box.

ALL STEEL BALL PEIN HAMMER.

This hammer was made particularly for motor cycle and automobile tool kits, but it is a very handy tool for general use, being very light and strong and having the end of the handle formed into a tire removing tool.

	Motorcycle Hammer.	**Auto Hammer.**
	4 oz. Head.	10 oz. Head.
	7½ in. long over all.	10½ in. long over all.
Per dozen	**$12.00**	**$14.50.**

Packed half dozen in a box.

HAND COLD CHISELS.

VLCHEK BRAND.

Size Steel, in.	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1
Length, in. .	5	5	5	6	6 3/4	7 1/2	8	8
Per doz.....	$1.40	$1.50	$1.70	$2.00	$2.90	$4.50	$7.00	$8.00

Packed half dozen in a box.

STANDARD BRAND.

Size Oct. Steel, in..	3/8	7/16	1/2	5/8	3/4	7/8	1
Length, in.....	5	6	6	6 3/4	7 1/2	8	8
Per doz.	$1.00	$1.10	$1.20	$1.50	$2.25	$3.00	$4.00

Packed half dozen in a box.

CAPE CHISELS.

VLCHEK BRAND.

Size Steel, in.	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1
Size Edge, in.	3/16	7/32	1/4	5/16	3/8	1/2	5/8	11/16
Length, in...	4 3/4	5 1/4	5 1/2	6 1/2	7 1/2	8	8 1/2	9 1/2
Per doz.	$1.40	$1.50	$1.70	$2.00	$2.90	$4.50	$7.00	$8.00

Packed half dozen in a box.

STANDARD BRAND.

Size Oct. Steel, in..	3/8	7/16	1/2	5/8	3/4	7/8	1
Size Edge, in.....	1/4	5/16	5/16	3/8	1/2	5/8	11/16
Length, in.	5 1/2	6	6 1/2	7 1/2	8	8 1/2	9 1/2
Per doz.	$1.00	$1.10	$1.20	$1.50	$2.25	$3.00	$4.00

Packed half dozen in a box.

MACHINISTS' CENTER PUNCHES.

VLCHEK BRAND.

Size Octagon Steel, in.....	5/16	3/8	7/16	1/2
Length, in.	4 1/4	4 1/2	5	5 1/4
Per doz., polished taper.....	**$1.20**	**$1.44**	**$1.56**	**$1.68**

Packed half dozen in a box.

STANDARD BRAND.

Size Octagon Steel, in.....	5/16	3/8	7/16	1/2
Length, in.	4 1/4	4 1/2	5	5 1/4
Per doz., polished taper ...	**$0.72**	**$0.75**	**$0.82**	**$0.92**
Per doz., black	**.65**	**.68**	**.75**	**.80**

Packed half dozen in a box.

MACHINISTS' SOLID PUNCHES.

VLCHEK BRAND

Size Octagon Steel, in.	5/16	3/8	7/16	1/2	5/8
Length, in.	4 1/2	4 3/4	5 1/2	6	6
Size point, in.....	3/32	1/8	5/32	3/16	1/4
Per doz., pol. taper..	**$1.20**	**$1.44**	**$1.56**	**$1.68**	**$1.80**

Packed half dozen in a box.

STANDARD BRAND.

Size Octagon Steel, in.	5/16	3/8	7/16	1/2	5/8
Length, in.	4 1/2	4 3/4	5 1/2	6	6
Size point, in.....	3/32	1/8	5/32	3/16	1/4
Per doz., pol. taper..	**$0.72**	**$0.75**	**$0.82**	**$0.92**	**$1.10**
Per doz., black	**.65**	**.68**	**.75**	**.80**	**.90**

Packed half dozen in a box.

SCREW DRIVERS.

Black Rubberoid Finished Handles

Tool Steel — Hand Forged

Highly Polished Blades

Size Round Steel, in	3/16	7/32	5/16	5/16	5/16	6/16	6/16
Length blades, in..	2	3	4	5	6	8	10
Per doz.	$1.50	$1.50	$1.70	$1.90	$2.15	$2.40	$2.65
Size Square Steel, in.....	6/16	5/13	5/16	5/16	5/16	5/16	5/16
Length Blades, in.....	3	4	5	6	8	10	
Per doz.	$2.40	$2.60	$2.80	$3.20	$3.40	$3.60	

Packed half dozen in a box.

ALL STEEL SCREW DRIVERS.

Tool Steel — Drop Forged

Highly Polished Blades

VLCHEK BRAND.

Size Square Shank, in. 3/8

Length, in. 9

Per dozen, polished shank $6.00

Per dozen, black 4.30

Packed half dozen in a box.

OFFSET SCREW DRIVERS.

Tool Steel **Hand Forged**

Black Finish

VLCHEK BRAND.

Size Octagon Steel, in.	5/16	5/16
Length, in.	5	6
Per dozen, black	**$1.60**	**$1.70**

Packed one dozen in a box.

COTTER PIN EXTRACTORS.

Cast Steel **Hand Forged**

VLCHEK BRAND.

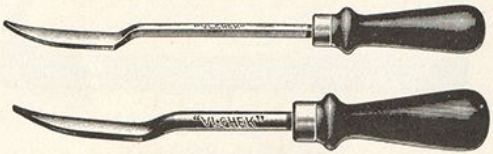
Number	1	2
Size Square Steel, in.	5/16	3/8
Length, in.	5½	6½
Per dozen, black	**$1.20**	**$1.70**
Per dozen, polished	1.70	2.40

Packed one dozen in a box.

MACHINISTS' AUTOMOBILE BEARING SCRAPERS.

Tool Steel **Drop Forged**

Full Polished



VLCHEK BRAND

	Round Shank	Square Shank
Number	1	2
Length, in.	11	13
Per dozen	**$3.60**	**$6.00**

Packed half dozen in a box.

FOUR EDGE BEARING SCRAPERS.

Hand Forged **Polished Blade**

VLCHEK BRAND

Non-Chattering Bearing Scraper.

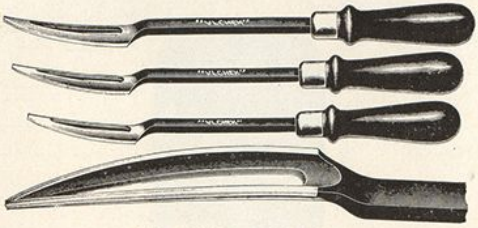
Rubberoid Handle, with leather pocket on blade.

Price each **$0.80**

This scraper never has to be hollow ground. Can be sharpened quickly by honing slotted side and will hold an edge longer than any other type.

Packed one in a wood box.

MACHINISTS' NON-CHATTERING BEARING SCRAPERS.



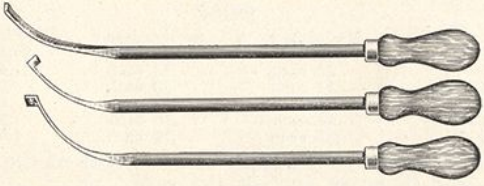
VLCHEK BRAND.

Above we show our new bearing scraper which we consider a perfect tool. Hand forged from high grade tool steel, ground with perfect edges, and positively non-chattering. A leather pocket is put on the blade of each one to protect the edges.

Price, per set **$2.50**

Packed and sold in sets of three in a wood box.

CARBON SCRAPERS.



Three to a set; packed one set in a box.

Price, per set **$0.75**

AUTOMOBILE WRENCHES.

15° Angle — Double Head

In Sets

VLCHEK BRAND.

U. S. Standard Milled Openings.

No.	For Nuts Diam. Small Head	For Nuts Diam. Large Head	For Cap Screws Diam. Small Head	For Cap Screws Diam. Large Head	Openings Milled U. S. Standard	Extreme Length
725		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{5}{16}$	$\frac{7}{16}$ and $\frac{1}{2}$	$4\frac{7}{8}$
27C		$\frac{21}{32}$	$\frac{21}{32}$		$\frac{9}{16}$ and $\frac{11}{16}$	$5\frac{7}{8}$
28	$\frac{5}{16}$	$\frac{7}{16}$			$\frac{29}{32}$ and $\frac{25}{32}$	$6\frac{7}{8}$
729			$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$ and $\frac{3}{4}$	$6\frac{7}{8}$
34	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$		$\frac{7}{8}$ and $1\frac{1}{16}$	$7\frac{3}{4}$
736		$\frac{3}{4}$	$\frac{3}{4}$	1	1 and $1\frac{1}{4}$	$11\frac{1}{2}$

PRICE

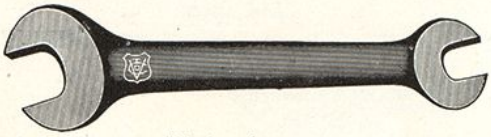
No.	Unfinished	Semi-finished	Finished
725	$0.18 each	$0.27 each	$0.36 each
27C	.22 each	.33 each	.44 each
28	.24 each	.36 each	.48 each
729	.26 each	.39 each	.52 each
34	.40 each	.60 each	.80 each
736	.51 each	.77 each	1.02 each

In sets of 5 or 6 add 25 cents to lists of the sizes desired to cover cost of the case.

A. L. A. M. Standard Milled Openings furnished when specified.

ENGINEERS' WRENCHES.

15° Angle — Double Head



Unfinished are milled only.

Semi-finished are milled, case hardened all over and heads ground bright. Finished are milled, polished all over, case hardened and heads bright polished.

No.	For U. S. Standard Size Bolt	Opening Milled	Extreme Length	Thickness Head
21	1/4 and 3/16	5/16 and 13/32	3 1/4	13/64 and 7/32
22	3/8 and 1/4	5/16 and 1/2	4	13/64 and 1/4
23	3/16 and 1/4	13/32 and 1/2	4	7/32 and 1/4
24	3/16 and 5/16	13/32 and 19/32	4 7/8	7/32 and 9/32
25	1/4 and 5/16	1/2 and 19/32	4 7/8	1/4 and 9/32
26	1/4 and 3/8	1/2 and 11/16	5 1/8	1/4 and 5/16
27	5/16 and 3/8	19/32 and 11/16	5 7/8	9/32 and 5/16
28	5/16 and 7/16	19/32 and 25/32	6 5/8	9/32 and 11/32
29	3/8 and 7/16	11/16 and 25/32	6 5/8	5/16 and 11/32
30	3/8 and 1/2	11/16 and 7/8	7 3/4	5/16 and 13/32
31	7/16 and 1/2	25/32 and 7/8	7 3/4	11/32 and 13/32
32	7/16 and 9/16	25/32 and 31/32	8 3/4	11/32 and 7/16
33	1/2 and 9/16	7/8 and 1 1/16	8 3/4	13/32 and 7/16
34	1/2 and 5/8	7/8 and 1 1/16	9 3/4	13/32 and 1/2
35	9/16 and 5/8	31/32 and 1 1/16	9 3/4	7/16 and 1/2

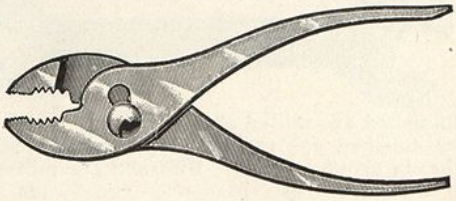
PRICE

No.	Unfinished	Semi-finished	Finished
21	$0.12 each	$0.18 each	$0.24 each
22	.13 each	.20 each	.26 each
23	.14 each	.21 each	.28 each
24	.16 each	.24 each	.32 each
25	.18 each	.27 each	.36 each
26	.20 each	.30 each	.40 each
27	.22 each	.33 each	.44 each
28	.24 each	.36 each	.48 each
29	.26 each	.39 each	.52 each
30	.28 each	.42 each	.56 each
31	.30 each	.45 each	.60 each
32	.32 each	.48 each	.64 each
33	.36 each	.54 each	.72 each
34	.40 each	.60 each	.80 each
35	.44 each	.66 each	.88 each

COMBINATION PLIERS.

Cast Steel — Drop Forged

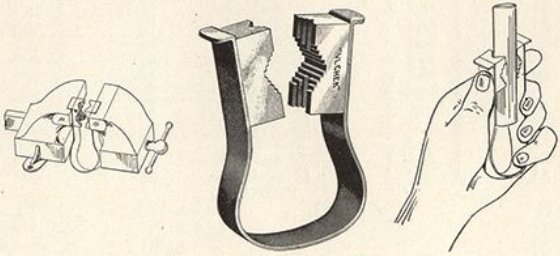
Six Inch



Per dozen, black	$3.50
Per dozen, mottled	4.00
Per dozen, nickeled	4.50

Packed one dozen in a box.

UNIVERSAL CLAMPING JAW.



VLCHEK BRAND.

This tool can be used as a hand clamp for holding any round object while drilling or threading or in connection with a bench vise, thereby converting it into a pipe vise.

Will hold round stock, ¼ to 1 in.

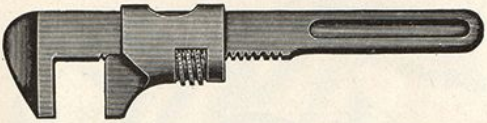
Price, each **$0.75**

Packed half dozen in a box.

AUTOMOBILE WRENCHES.

Cast Steel **Hand Forged**

Nine Inch



Length over all, in..	5½	7	9	11	14
Jaw opens, in.	1½	1½	2½	2⅛	2½
Per doz., black	**$1.75**	**$2.80**	**$4.56**	**$8.50**	**$15.00**
Per doz., mottled ..	**$2.25**	**$3.00**	**$5.00**	.....	.....
Per doz., nick. plated	**$2.50**	**$3.30**	**$6.00**	.....	.....

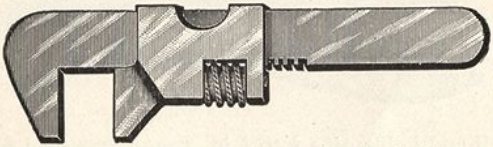
The 11 and 14 inch wrenches can be furnished with tire iron handle without extra cost.

Tool steel pipe wrench attachments for above wrenches, extra per dozen:

9 inch $4.00, 11 inch $4.50, 14 inch $5.00

BICYCLE WRENCHES.

Cast Steel **Case Hardened**



Length 5¼ inches. Jaws ¾ x 7/32 inches.
Opens 1⅜ inches.

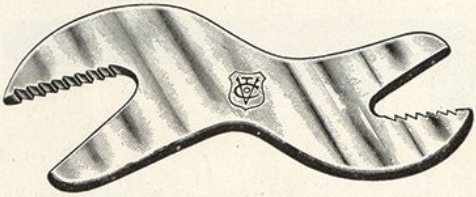
Per dozen, black **$1.40**
Per dozen, nickel plated **1.60**

Packed one dozen in a box.

"ALWAYS READY" WRENCHES.

Cast Steel — Drop Forged

Oil Tempered



VLCHEK BRAND.

Number	1	2	$2\frac{1}{2}$	3
Length, in.	5	7	$9\frac{1}{2}$	$11\frac{1}{2}$
Holds nut or pipe, in.....	$\frac{1}{4}$ to $\frac{3}{4}$	$\frac{1}{4}$ to $1\frac{1}{4}$	$\frac{1}{4}$ to $1\frac{3}{4}$	$\frac{3}{4}$ to 2
Per doz., mottled finish	**$4.60**	**$6.30**	**$10.00**	**$15.25**
Per doz., nickel plated..	**$5.00**	**$6.75**	**$10.50**	**$16.00**

Packed half dozen in a box.

"READY GRIP" WRENCHES.

Small end holds pipe $\frac{1}{8}$ to $\frac{1}{4}$ in., round iron $\frac{1}{4}$ to $\frac{9}{16}$ in.
Large end holds pipe $\frac{1}{8}$ to $\frac{3}{8}$ in., round iron $\frac{1}{4}$ to $\frac{3}{4}$ in.

Price per dozen, natural finish **$2.50**

Price, per dozen, full polished **$3.50**

Packed half dozen in a box.

SINGLE JAW WRENCHES.

Cast Steel — Oil Tempered

Polished Jaws

Number	1
Holds pipe, inches	$\frac{1}{8}$ to $\frac{3}{8}$
Holds round iron, inches	$\frac{1}{4}$ to $\frac{3}{4}$
Length, inches	$5\frac{1}{2}$
Per dozen	**$1.08**

Packed one dozen in a box.

SPARK PLUG SOCKET WRENCHES.

Malleable — Case Hardened

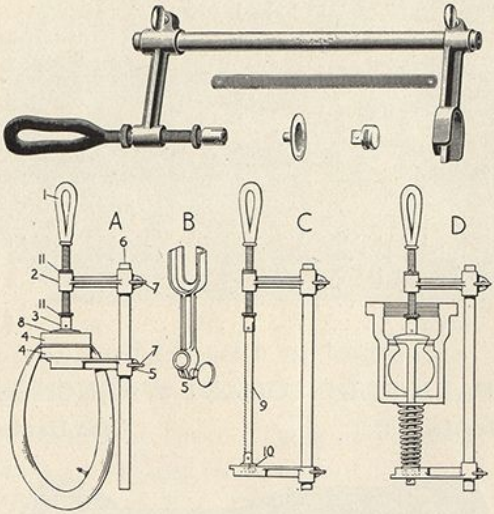
VLCHEK BRAND.

Furnished with either 7/8 or 1″ opening.

Per dozen, tinned	**$3.60**
Per dozen, japanned	**2.40**

Wrapped one dozen in a package.

VLCHEK COMBINATION VALVE REMOVING TOOL.



This is the only Valve Lifter that will compress heavy springs and at the same time keep the valve down.

The Tool can be used for many purposes such as stretching springs and clamping or stretching all kinds of articles, being most handy in a break down.

Price **$2.00**

Packed, one complete, in wooden box.